

Title (en)  
Optical line terminal (OLT) system

Title (de)  
Optisches Leitungsendgerät(OLT)-System

Title (fr)  
Système de terminal de ligne optique (OLT)

Publication  
**EP 2713628 A3 20160525 (EN)**

Application  
**EP 13003198 A 20130621**

Priority  
US 201213627795 A 20120926

Abstract (en)  
[origin: EP2713628A2] An optical line terminal (OLT) system for a passive optical network (PON) may include a processor, an OLT Medium Access Control (MAC) device communicatively coupled to PON ports, and a switch device communicatively coupled to the OLT MAC device via an Ethernet interface. The processor may map logical identifiers of each PON port to tunnel identifiers, where each tunnel identifier is indicative of a logical identifier and its corresponding PON port. The OLT MAC device may receive upstream data items that include logical identifiers over the PON ports. The OLT MAC device may replace the logical identifier of each upstream data item with the tunnel identifier that is mapped to the logical identifier and the PON port over which the upstream data item was received. The OLT MAC device may transmit, over the Ethernet interface to the switch device, the upstream data items including the tunnel identifiers.

IPC 8 full level  
**H04L 12/28** (2006.01); **H04L 12/46** (2006.01); **H04Q 11/00** (2006.01)

CPC (source: EP KR US)  
**H04B 10/25** (2013.01 - KR); **H04L 12/2872** (2013.01 - EP US); **H04L 12/4633** (2013.01 - EP US); **H04Q 11/0067** (2013.01 - EP US); **H04Q 2011/0086** (2013.01 - EP US)

Citation (search report)

- [X] US 2004120326 A1 20040624 - YOON HYEON-SIK [KR], et al
- [A] US 2005083950 A1 20050421 - CHOI SU I [KR], et al
- [A] US 2005058118 A1 20050317 - DAVIS LAWRENCE D [US], et al
- [A] US 2007025734 A1 20070201 - OOGUSHI SADAICHIROU [JP], et al

Cited by  
CN112602273A; EP3896870A4; US11575441B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2713628 A2 20140402; EP 2713628 A3 20160525**; CN 103686472 A 20140326; CN 103686472 B 20170609; KR 101475053 B1 20141222; KR 20140040621 A 20140403; TW 201414220 A 20140401; TW I524685 B 20160301; US 2014086580 A1 20140327; US 9319236 B2 20160419

DOCDB simple family (application)  
**EP 13003198 A 20130621**; CN 201310367655 A 20130821; KR 20130075741 A 20130628; TW 102124716 A 20130710; US 201213627795 A 20120926